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Application No.	09/701,760	Prepared by	SY	Tracking Number	059918117
Examiner-GAU	Swartz - 11045	Date	9/15/04	Week Date	8/9/04
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a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

SPECIFICATION	MESSAGE PTO-1449: Please initial or line through citations on form dated 4-2-03. and 08/20/04. (5 pages - copies provided for reference)	
	(2) a) original claim 19 depends from original claim 46 (now claim 45).	
	b) original claim 20 depends from original claim 47 (now claim 46). - see attached	
	Please advise/correct claim dependency.	
CLAIMS	<i>Thank You,</i> initials SY	
RESPONSE		
initials		



Electronic Information Disclosure Statement

Method for the Purification, Recovery, and Sporulation of Cysts and Oocysts

Application:  09/701760

Confirmation: 8928

Applicant(s): Harold Conkle

Docket Number: 5175.135

Group Art Unit: 1643

Examiner: Shwartz

(4639372 or 4724145 or 4040388 or 4301148 or 4357320 or 4438097 or 4458630 or 4469047
or 4500638 or 4505892 or 4544548 or 4593646 or 4650676 or 4681063 or 4735801 or 4751079
or 4808404 or 4935007 or 5004607 or 5006341 or 5028421 or 5055292 or 5068104 or 5106617
search string: or 5279960 or 5288845 or 5311841 or 5339766 or 5359050 or 5661015 or 5674484 or 5807551
or 6019985 or 6231871 or 3147186 or 3617529 or 3617539 or 3827557 or 4208282 or 4544548
or 4681682 or 4790943 or 4808404 or 4863731 or 4913826 or 5045313 or 5055292 or 5068104
or 5280042 or 5702612).pn.

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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	P02	4724145	1988-02-09		Murray et al.		

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P50	5702612	1997-12-30		Wang

Signature

Examiner Name	Date

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

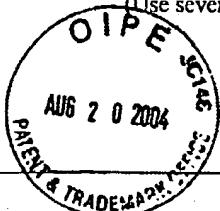
Attorney Docket Number
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Serial No.
09/701,760

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

A1 of A1



Applicants:
Conkle et al.

Filing Date:
April 19, 2004

Group:
1645

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	1.	RU2095409 C1		Russia			YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	2.	CHERVJAKOV et al., "Handbook, Veterinary Drugs," Moscow, Kolos. (1977) pp. 391-392. (With English Translation)

EXAMINER

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

In re: Conkle et al.
Serial No.: 09/701,760
Filed: April 19, 2001
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17. (Original) The method of claim 15, wherein the aqueous suspension comprises an oocyst concentration of about 10^4 to about 10^8 oocysts/ml and an initial hydrogen peroxide concentration of about 1,000 to about 20,000 mg/l.

18. (Previously presented) A method for the purification, recovery and sporulation of oocysts, comprising:

separating the oocysts from a first suspension comprising the oocysts; and

sporulating the separated oocysts by the method of claim 15.

19. (Previously presented) The method of claim 48 wherein the oocysts are selected from the group consisting of oocysts from *Eimeria maxima*, *Eimeria mitis*, *Eimeria tenella*, *Eimeria acervulina*, *Eimeria brunetti*, *Eimeria necatrix*, *Eimeria praecox*, and combinations thereof.

20. (Previously presented) The method of claim 47 wherein the salt flotation process comprises:

preparing an admixture comprising the oocysts and the salt;
centrifuging the slurry and recovering a supernatant therefrom;
forming a dilution of the supernatant and centrifuging the dilution; and
recovering the concentrate from the centrifuged dilution.

21. (Original) The method of claim 18, wherein separating the oocysts is accomplished by a gas flotation process which comprises:

adjusting the first suspension to a pH sufficient to affect adhesion between bubbles of the gas in the suspension and the encysted protozoa;

conditioning the pH adjusted suspension by adding a sufficient amount of a surface active agent compound to selectively coat particles in the suspension and a sufficient amount of a heteropolar compound to produce a stable froth;